

Rolling Knolls Landfill Superfund SITE
FIELD CHANGE REQUEST (FCR) FORM

Contract No.:

REQUEST NO: 09

DATE: 07/06/2015

FCR TITLE: Existing Monitoring Well Analyses

DESCRIPTION:

The Data Gaps Sampling and Analysis Plan (Data Gaps SAP) proposed three rounds of groundwater sampling. The first groundwater sampling event consists of sampling all existing permanent wells (MW-1 through MW-10 and X-1 through X-7) for full TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters. The second groundwater sampling event includes sampling of all new monitoring wells (MW-11 through MW-20) for full TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters, and resampling at selected existing monitoring wells as necessary depending on the results of the prior groundwater sampling events. The third groundwater sampling event consists of sampling all the new monitoring wells for full TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide, providing a second complete round of samples at these wells. The USEPA approved the Data Gaps SAP on November 18, 2014.

The first groundwater event was conducted December 8 through 12, 2014. Preliminary results were provided to USEPA in an Interim Tech Memo on February 17, 2015, and final validated results were provided on April 22, 2015. The second groundwater sampling began June 22, 2015. All of the newly-installed wells (MW-11 through MW-20) were sampled, with the exception of MW-13. The location proposed for MW-13 is inundated with water and will be replaced with pore-water sampling (see FCR-08). This FCR identifies the existing monitoring wells that will be sampled as part of the second round of Data Gaps SAP groundwater sampling, and the analytical parameters for each of these wells.

REASON FOR DEVIATION:

The selection of analyses at existing wells is required as part of the second groundwater sampling event. No deviation from the Data Gaps SAP has been made. This FCR is being submitted as a form of documentation for the analysis selection process.

Groundwater analytical results from the previous sampling events were evaluated for all permanent monitoring wells (MW-1 through MW-10 and X-1 through X-7). Based on these data and discussions with USEPA, all 17 monitoring wells were identified for sampling during the second sampling event.

RECOMMENDED MODIFICATIONS:

Groundwater sampling results from the three previous sampling events were presented in the Interim Tech Memo (submitted February 17, 2015). Figure 1 from the Interim Tech Memo is attached for reference. Monitoring wells MW-1 through MW-10 and X-1 through X-7 are selected for sampling during the second groundwater sampling event, and samples will be analyzed for full TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide.

A table summarizing the monitoring wells, the proposed analyte list, and additional rationale for sampling is attached to this FCR (Table 1).

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IMPACT ON PROJECT OBJECTIVES:

The selected wells meet the project objective of collecting groundwater samples to characterize constituent concentrations in groundwater at the landfill.

Dated Signatures:



07/0608/2015

(Field Team Leader)



07/0608/2015

(Project Manager)

Distribution:

T. Mitchell, EPA Remedial Project Manager
Quality Assurance Coordinator

RI Task Leader
Project File

Table 1
Monitoring Well Analyses FCR-09
Rolling Knolls Landfill Superfund Site
Chatham, New Jersey

Well Number	Laboratory Analyses	Rationale
MW-1	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Additional data being collected to support future remedy selection
MW-2	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Additional data being collected to support future remedy selection
MW-3	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Confirm concentrations of VOCs (benzene and 1,4-dioxane) and pesticides (alpha-, beta-, and delta-BHC). Additional data being collected to support future remedy selection
MW-4	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Additional data being collected to support future remedy selection
MW-5	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Additional data being collected to support future remedy selection
MW-6	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Additional data being collected to support future remedy selection
MW-7	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Confirm concentrations of antimony, cadmium, lead, thallium, and zinc; evaluate whether they are dissolved or associated with turbidity. Additional data being collected to support future remedy selection
MW-8	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Additional data being collected to support future remedy selection
MW-9	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Additional data being collected to support future remedy selection
MW-10	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	Additional data being collected to support future remedy selection
MW-11	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	No sampling has been conducted at this well.
MW-12	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	No sampling has been conducted at this well.
MW-13	Well location replaced with pore-water sampling	No sampling has been conducted at this well.
MW-14	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	No sampling has been conducted at this well.
MW-15	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	No sampling has been conducted at this well.
MW-16	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	No sampling has been conducted at this well.
MW-17	TCL/TAL, SVOCs (SIM), TAL metals (filtered), and cyanide parameters	No sampling has been conducted at this well.

MW-18	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	No sampling has been conducted at this well.
MW-19	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	No sampling has been conducted at this well.
MW-20	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	No sampling has been conducted at this well.
X-1	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	Additional data being collected to support future remedy selection
X-2	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	Additional data being collected to support future remedy selection
X-3	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	Additional data being collected to support future remedy selection
X-4	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	Additional data being collected to support future remedy selection
X-5	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	Additional data being collected to support future remedy selection
X-6	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	Additional data being collected to support future remedy selection
X-7	TCL/TAL, <u>SVOCs (SIM), TAL metals (filtered), and cyanide parameters</u>	Additional data being collected to support future remedy selection

TCL/TAL – target compound list/target analyte list

VOCs – volatile organic compound.

XREFS: IMAGES: PROJECTNAME: ----
 33203X01
 B0033203X15
 B0033203XPD

